

To: Way, Steven[way.steven@epa.gov]
Cc: Butterfield, W. Scott[W.S.Butterfield@WestonSolutions.com]
From: Petri, Elliott
Sent: Thur 11/19/2015 11:31:08 PM
Subject: GKM - Copper Environmental - Work Summary and Invoice Summary

Hi Steve,

Please find a breakdown of the work copper performed under our subcontract so far. Please review the summary included and respond with your concurrence or anything that may need clarification prior to acceptance of the invoice.

September 4, 2015 to October 31, 2015 – Gold King Mine Site Project

The work conducted during this invoice period included treatability study testing for the Gold King adit drainage; geochemical modeling of the treatability study result; and, preparation of a report summarizing the treatability study findings. The focus of the treatability study was on metals removal efficiency at various pHs using lime as a neutralizing agent and comparing settling rates of precipitated metals when various flocculants were added to the treated water.

Principle Engineers:

Dave McCarthy:

- [REDACTED] Discussion on filtering of solids.
- [REDACTED] Discussion, call, and email regarding slurry and flocculant option evaluations.

Jim Jonas:

- [REDACTED] Kickoff call and contracting.
- [REDACTED] Treatability study data and geochemical model.

Project Engineer:

- [REDACTED] Precipitation Testing and Titration Results.
- [REDACTED] Flocculant testing and results.

Staff Engineer II:

- P&IDs, Treatment design, and equipment availability.

Project Administrator:

- Documentation

Cost Breakdown:

Labor	Principle Engineer	CBI/Ex. 4
	Project Engineer	
	Staff Engineer II	
	Project Administrator	
Lab Costs	Analysis	
	Sub Markup	
Materials	Copies	
TOTAL		

Again please review this and reply with concurrence or any questions you may have regarding this work.

Thanks,

Elliott

Elliott Petri, PE

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